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	· · · · · · · · · · · · · · · · · · ·	CLASSIFICATION CONTRACT CENTRAL INTELLIGENCE CENCY	25X1			
		INFORMATION REPORT				
	COUNTRY	USSR (Chelyabinsk Oblast)	\mathcal{G} DATE DISTR. 14 October 1949			
	SUBJEÇT	Ural-ZIS Automobile Plant nar Mass	NO. OF PAGES 7			
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	U.S. C. 31 AND 32.	TAIRS INFORMATION APPECTING THE RATIONAL DEFENSE ES WITHIN THE HEARING OF THE ESPICITACE ACT 50 ES MERIODO, I.ST TRANSMISSION OF THE REVELLITION THIS IS	Director of Central Intelligence to the			
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05)						
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	1.	Location and Traffic Facilities	a *			
		a. The plant is located about 3 mil MIASS RR station (at the double-trac UFA RR line) and is connected with t track spur RR line. A loading stati the settlement.	k electrified CHELYABINSK-			
		b. A 16-foot-wide highway leads fro RR station.	m the plant to the MIASS			
		c. On the east and south, the plant district unanimously designated NCVY-MIASS settlement (see layout, A	AS NOVO STROTES OF OFVI			
	2.	Plant History	er g			
		a. The construction of the plant wa 1941. The basic equipment of the plof the MOSCOW Stalin Automobile Plowork force to MIASS. Small-scale prin 1942/1943. The plant has been enery dismantled at the STETTIN Plant was said to have been used. The stored in the plant area.	ant were installations ant evacuated with the oduction of trucks started larged since 1945. Machinestone Stoewer Automobile			
		b. The construction of the plant was presumably will not be completed unto	s under way in 1948 but il 1950.			
	2.0	Work Force and Working Time	,			
	• •	Statements of the number of workers on c	one shift vary between			
	25					
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3,000 and 5,000. The total number of employed may therefore be cathledged at 12,000. This number includes about 4,000 Pdb. orb is done in three C-hour shifts.

4. Becurity

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The plant is surrounded by an 8-foot-high wooden fence. Search-light-equipped satchtowers are outside the fence at 300-foot intervals. Armed plant militie are on goard duty in the plant atself.

5. Plant Installations:

- a. The plant covers on area of 3,300 x 2,500 feet (Indications are only slightly different).
- b. The following departments are recorded (enumerations correspond to the numbers of Amnex No 2):
- (1) Foundry No 1 for light metal alloys.
- (a) Installation: several AEG electric furnaces with graphite electrodes (the indicated numbers vary between four and seven), conveyor belts, traveling cranes.

 volumetric capacity of one electric furnace at 60 tons and the number of furnaces at 4.

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- (b) Production: light metal-copper alloys and castings made of such alloys.
- (2) Foundry No 2 for steel castings: (foundry No 1 and No 2 are in one workshop)
- (a) Installation: Three to four open-hearth furnaces (coke firing).
 (The furnace capacity is indicated at 20 tone per tagging.)
 Allegedly also one Thomas converter, conveyor belts, and two traveling cranes. In the same building are also the foundry cleaning shop, the grinding shop, and the molding shop.
- (b) Production: gear wheels, brake shoes, habs, and other steel parts (also rims) also rims) Also castings of bevel wheels and cog wheels delivered from CHEL-YABILUK are tooled in this grinding shop.
- (3) Fundry No 3 for grey castings:
- (a) Installation: Five to six cupola furnaces (core firing) (The volumetric capacity of one furnace is indicated at 25 to 30 tons. One tapping is done per shift)

The traveling cranes and four conveyor belts.

Holding shop (sand-molding: - the daily output is indicated at 60 molds)

Cleaning shop and grinding shop.

The three shops are in the same building.

(b) Production: casting of engine blocks, gear boxes, oilpans, lids. The daily output is indicated at 96 engine blocks (including 50% waste products) and 60 year boxes (33% waste). The waste material is re-smelted.

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Approved Release 2003/09/03 : CIA-RDP82-00457R003400490001-4 25X1 MIRAL-INTELLIGENCE AGENCY 25X1 -3-Engine department: (two-story building) The following installations are on the ground floor: 20 to 25 drilling and grinding muchines 60 to 80 special machines 8 to 10 milling machines 20 to 30 lathes 5 to 6 planers 5 shaping machines 1 conveyor belt for the assembly 1 test stand for 20 engines 10 small cranes 2 hardening shops with 3 annealing furnaces (each oil firing) with three oil baths each for hardening axles, shafts, and goar wheels. (b) Production: Single parts and assembly of engines running on gasoline and of engines operated with gas producers. One reported the construction of gas generators. The alleged daily output was 75 engines including 10 engines operated with gas generators. (The last fact was emphasized Part of the finished engines are delivered to other plants. Castings of gear wheels, crankshafts, and camshafts come from a CHELYABLESK Plant. 25X1 (5) Hechanical department. (a) Installation: 30 simple spindle lathes 15 milling machines 8 small planers 5 shaping machines 20 to 25 one-spindle and multiple-spindle drilling machines 10 grinding muchines 5 thread-cutting machines 4 hardening furnaces armature winding shop (b) Production: differential gears, change gears; clutches, turning of axles. (6) Mechanical department (a) Installation: unknown (b) Production: finished parts Forge (drop forge) and punching shop: (7)(a) Installation: unknown (b) Production: forgings (8) Mechanical frame department Installation: planers, horizontal milling machines, spindle lathes, high speed shapers, pull type keywaying machines (most of the machines are of German make, 20 percent are of American make, and a very small part are old Russian

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machines).

5 large and 2 small annealing furnaces

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(b) Production: tooling of single parts including springe, lids for differential year boxes (60 pieces daily), axles, and stub axles.

Assembly of partial sets (including 100 front and rear axles as well as 50 to 60 frames daily), welding of automobile frames, assembly of the frame including mounting of tires.

- -utomutic frame department and final assembly: (Tro-story building. The second floor is built as a circular balcony platform)
- (a) Installation (1st floor): 2 conveyor belts running through the entire workshop, depots for single parts along the lateral walls of the workshop 5 traveling crabs.
- (b) Production (1st floor): final truck assembly (mounting of engines, assembly of frames and bodies, installing of the electric system).
- (c) Installation (2d floor): 2 drilling machines 2 wolding apparatuses 2 traveling crabs various work benches
- (d) Production (2d floor): final assembly of driver's cabins and superstructures, welding, upholstering, assembly of instrument-boards, fixing of window panes, spray-painting
- (10) Instrument department:
- (a) Installation: a great number of machine tools, a forge and hardening shop
- (b) Production: Complete tool sets for trucks. The building also serves as spare part depot.
- (11)Sawmill

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- (a) Installation; two frame saws (allegedly steam operation).
 the sawmill has its own boiler house.
- (b) Production: cutting of boards for truck bodies.
- (12) Wood-working department (carpentry)
- (a) Installation:

4 planers 2 combined woodworking machines 3 circular saws and three band saws 4 milling machines 5 drilling machines 1 multiple-cpindle drilling machine 1 frame press

(all machines are operated electrically) CONFIDEN

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- (b) Production: truck superstructures (driver's cobins, lateral walls, truck bodies, seats). 80 cubic meters of wood are processed daily.
- (13) Nut and sirew department.
- (a) Installation:

lethes, thread cutting machines, screw taps, oil presses (for pressing screw threads), 2 large crawing benches, 1 small drawing bench for adjusting hexagon iron for screws and nuts, 1 annealing furnace (oil firing) for hardening, 4 1-45e electric furnaces for thermal treatment.

- (b) Production: nuts, bolts, and screws.
- (14) Two new buildings.

The future use of these buildings is not known. Machine tools were installed in one workshop at the time of observation. The second building is provided for storing single parts.

(15) Power station.

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(16) Transformer station.

It transforms power supplied from an outside power plant (MIASS Power Plant?) through a transmission line. Only part of the installation is roofel.

- (17) Old boiler house
- (a) Installation: 30 (?) boilers (1 boiler is 26 feet high and 13 feet in diameter), 5 furnaces (1 furnace for 6 boilers) with coal firing.
- (b) Production: steam for heating purposes of the plant (southern and western part of the plant).
- (18) New boiler house:
- (a) Installation: the number of boilers is not recorded. Boiler capacity: 25 to 28 atm. gauge furnaces are built for coal dust firing, daily coal consumption allegedly 60 to 80 tons.
- (b) Production: steam for heating purposes of the plant (northern and eastern part of the plant) and for operating the presses.
- (19) Lubricant and fuel dump.
- 4 tapping points of underground tanks, 4 above-ground tanks, 40 feet long with a volumetric capacity of approximately 15 tons.

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- (20) Jarehouses for raw materials, parts, and finished engines.
- (21) Shorage place for machines. The machines of the STETTIN Stoewer Plant were stored in this dump at the time of observation.
- (22) Perking lot for finished trucks
- (23) Administration (three-story building)
- (24) Plant training school,
- (25) Engine sheds (for two plant-owned shunting locomotives)
- (26) Plant RR station.
- (27) Factory for building materials.
- (28) Kitchen and messhall
- (29) Guard station

6. Production:

a. The development of production is shown in the following chart:

	daily output	nonthly	output	annual output
1945 1946 1947 1948 (scheâu	12 20 40 50	300 500 1,000 1,250		3,600 6,000 14,000 15,000
output at the end of 1948: 1950 schooled production 250		1,800	(actual o	output in November
		6,250		75,000

(The 1950 plan figures were published in the press)

- b. "ZIS-5" trucks are built in the plant (3.5 ton trucks with two axles, double rear wheel tires, and 6 cylinder Otto engine, gasoline consumption 6.5 to 8 gallons for 65 miles).
- c. The first models of an improved "ZIS-5" truck were turned out early in 1949. They had the following new features as compared to the old model:
- d. Three-seat driver's cabin, streamlined body, elongated frame (increasing the loading space by 0.3 cubic meters), hydraulic brake, larger fuel tank. The mass-production of single parts already started about February 1949.

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